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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,736	03/23/2004	Jerome David	SPINE 3 . 0-423	2555
530 LERNER DA	7590 08/13/2007 VID, LITTENBERG,		EXAMINER SHAFFER, RICHARD R	
KRUMHOLZ	& MENTLIK	•		
600 SOUTH A WESTFIELD,	FH AVENUE WEST CLD, NJ 07090		ART UNIT	PAPER NUMBER
•			3733	-
			MAIL DATE	DELIVERY MODE
			08/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/806,736	DAVID, JEROME				
Office Action Summary	Examiner	Art Unit				
	Richard R. Shaffer	3733				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>25 May 2007</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	<u> </u>					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-33</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) ☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	·					
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
. Attachment(c)						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/12/2007. 5) Notice of Informal Patent Application 6) Other: DE 202 02 049 U1.						

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 27, 28 and 33 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Independent claims 25 and 29 set for a "positioning means" yet in dependent claims 27 and 33 applicant states that the device "further comprises a stop element" which according to applicant's specification is the positioning means. Therefore, since applicant has no effectively claimed both a positioner and a stopping element (which there is no support as originally filed), it is deemed new matter. Dependent claim 28 is rejected for being dependent upon claim 27 and therefore also contains the new matter material.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3, 4 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 3 recites the limitation "said component" in line 3. There is insufficient antecedent basis for this limitation in the claim. Claims 4 and 8 are rejected for being dependent upon an indefinite base claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 5-7 and 9-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shluzas et al (US Patent Application Publication 2002/0143328) in view of Kambin (US Patent 5,964,761) and further evidenced by Petit et al (US Patent Application Publication 2003/0045878).

Shluzas et al disclose a bone plate system (Figure 5) comprising: a curved (see Figure 3) bone plate (212) having a first aperture (250), second aperture (252), and a third aperture (254) extending along a longitudinal axis and having an upper and lower surface; a sliding element having a top (242) and bottom (270) portion, an aperture extending along a central axis, the top portion having a compression member (lower portion of top 242), the bottom portion having a locking member (upper portion of 270), both the top and bottom portions having inwardly tapered walls (the top is internal, the bottom is external at the base where it interfaces with 240), both portion have a radially outward extending shoulder (286 and 294), and both portions interact with an interior wall of the bone plate aperture (250); a bone fastener (216) having a longitudinal axis,

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stem which is orientated within the sliding element aperture; a stopping element (240); a threaded locking element (228) having a bore for receiving the stem of the bone screw and includes a concave base (206) and a cap (more easily seen in Figure 3). In Column 5, Paragraph 57, it is further disclosed that the stopping element could have a convex surface with the bottom element having a concave surface to interact.

Shluzas et al disclose all of the claimed limitations except for the stopping element being separable and adjustable by threading as well as the method of doing so.

Kambin teaches (**Figures 6 and 7**; **Column 3**, **Lines 1-31**; **Column 6**, **Lines 43-58**) a mechanism through the use of a sleeve (**70**) that adjusts the effective height of the screw in order to appropriately place bone plate (**104**) adjacent the fascia but under the skin. It would have been obvious to one having ordinary skill in the art at the time the invention was made to consider the design benefits of having an adjustable screw for proper bone plate placement. It has further been held that that the provision of adjustability, where needed, involves only routine skill in the art. *In re Stevens*, 101 USPQ 284 (CCPA 1954).

One having ordinary skill in the art at the time of invention would have had at least two equally obvious design choices in how to provide the adjustability. One would have been merely separating element 32 from Shluzas and providing internal threading like the sleeve 70 of Kambin while leaving element (34) intact to provide for the previous driver engagement. The other would have been following the teaching of Petit et al demonstrating no such driver engagement (except for at the head {5, Figure 2}) therefore allowing the entire complex of 32 and 34 of Shluzas to be modularly

adjustable along the shaft of the screw through a threaded engagement. The level of skill required has been deemed to be within that of an ordinary worker in the art; see *Nerwin v. Erlichman*, 168 USPQ 177, 179.

Claims 3, 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shluzas et al in view of Kambin, further evidenced by Petit et al, and further in view of Lin (US Patent 5,613,968).

Shluzas et al in view of Kambin and Petit et al disclose and teach all of the claimed limitations except for the top portion having a plurality of tapered fingers with a ridge at least partially around an outer circumference to engage a lip around an inner circumference of the base portion. Lin teaches (Figure 3c) an insert with a ridge (to engage a lip) with a plurality of tapered (240 demonstrated a tapered direction) fingers (slots 250 define them) to assure quick and reliable interconnection. One having ordinary skill in the art at the time of invention would have readily appreciated the obvious ability of modifying the top and bottom portions of Shluzas et al to accept a fingered top portion with a ridge to snap-fit into a lower base portion in order to provide for a reliable connection with a tactile and audible notification to the practitioner performing the surgery.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection. Primarily, in regards to applicant's arguments about the non-obviousness of the previous rejection, prior art references have been used to support what has always been stated as the case.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard R. Shaffer whose telephone number is 571-272-8683. The examiner can normally be reached on Monday-Friday (7am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Richard Shaffer August 4th, 2007

Sichard Shaff

ED ARDO / ROBERT PERVISOR / PATENT EXAMINER